

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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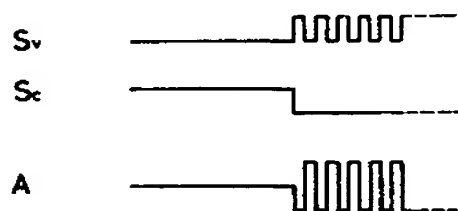
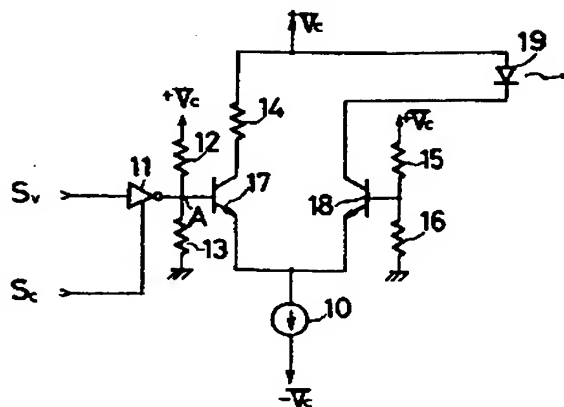
APPLICATION DATE : 19-11-82  
APPLICATION NUMBER : 57202168

APPLICANT : CANON INC;

INVENTOR : TSUKADA MASA HARU;

INT.CL. : G11B 7/12 G11B 7/08 G11B 11/10

TITLE : SEMICONDUCTOR LASER DRIVING DEVICE



ABSTRACT : PURPOSE: To switch the laser power of a semiconductor laser in two steps with a constant current source by providing a current switching means which modulates the laser driving current on the basis of a fixed level when the information is written.

CONSTITUTION: The current flowing to a semiconductor laser 19 is set at levels decided by resistances 12, 13, 15 and 16 respectively to set an automatic focus mode. In a writing mode, a mode switching signal Sc is released, and at the same time a video signal Sv is supplied to a tri-state buffer 11. When the signal Sv is set at a high level, the potential at a point A in the diagram is reduced as compared with that set at an automatic focus mode. In this case, the information is written. When the signal Sv is set at a low level, the potential at the point A is increased as compared with the automatic focus mode. Therefore, the value of the current flowing between the collector and the emitter of a transistor 17 is increased, and the value of the current flowing to the laser 19 is decreased.

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